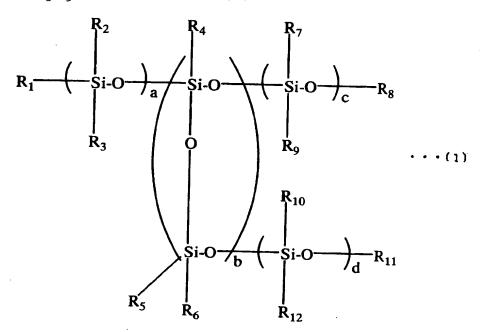
WHAT IS CLAIMED IS:

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- 1. A solid electrolyte, wherein the solid electrolyte is formed by baking a thin film in which a silicon compound contains a metal salt compound.
- 2. The solid electrolyte according to claim 1, wherein said metal salt compound is a lithium salt compound.
 - 3. The solid electrolyte according to claim 1, wherein said thin film contains at least either of a polysilane which is soluble in organic solvent or a silicone compound, as a silicon compound.
 - 4. The solid electrolyte according to claim 1, wherein said silicone compound has a structure represented by the following general formula (1)



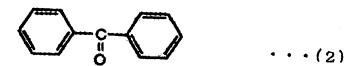
wherein \boldsymbol{R}_1 to \boldsymbol{R}_{12} are groups selected from the group

consisting of aliphatic hydrocarbon groups containing 1 to 10 carbon atoms, for a part of which a halogen group or a glycidyloxy group may substitutes, aromatic hydrocarbon groups containing 6 to 12 carbon atoms and alkoxy groups containing 1 to 8 carbon atoms and may be identical with or different from one another, and a, b, c and d are integers including 0 and satisfy a relationship of a + b + c + d \geq 1.

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- 5. The solid electrolyte according to claim 1, wherein said thin film contains at least one of peroxide and benzophenon derivative.
- 6. The solid electrolyte according to claim 5, wherein said benzophenon derivative has a benzophenon skeleton represented by the following formula (2).



- 7. The solid electrolyte according to claim 5, wherein said peroxide has at least one or more linkages represented by -C (= 0) 0 0 in the molecular structure.
 - 8. The solid electrolyte according to claim 1, wherein said solid electrolyte was prepared by baking at a temperature of 400°C or higher.
- 9. A capacitor element, wherein said capacitor element has a structure in which the solid electrolyte according to claim 1 is sandwiched between a pair of electrodes.